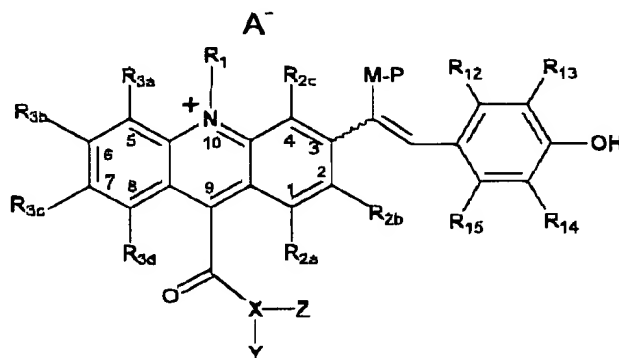


Application No. 09/626,566

Filed: 7/27/00

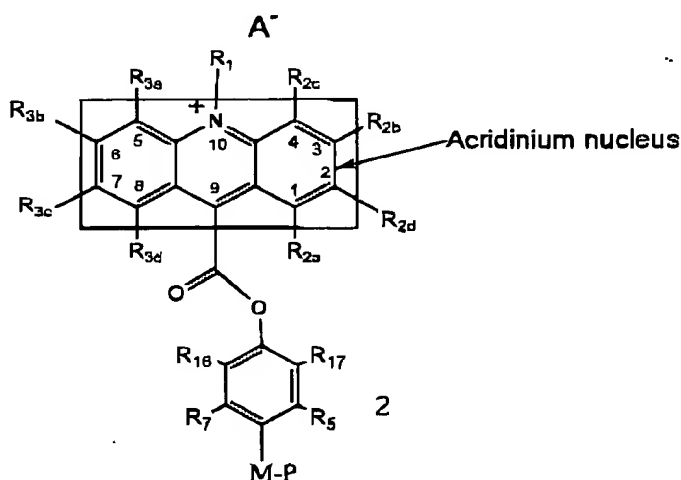
Group Art Unit: 1625

23. The chemiluminescent substrate of claim 4 wherein said chemiluminescent moiety Lumi is an acridinium compound having the following structure:



wherein, R_1 , R_{2a-c} , R_{3a-d} , A^- , M , P , X , Y , and Z are as defined in claim 4; R_{12} , R_{13} , R_{14} and R_{15} are the same or different and are selected from the group consisting of hydrogen, $-R$, hydroxyl, amino, halides, nitro, nitroso, sulfonate, sulfate, phosphonate, $-CO_2H$, cyano ($-CN$), $-SCN$, $-OR$, $-SR$, $-SSR$, $-C(O)R$, and $-C(O)NHR$.

26. The chemiluminescent substrate of claim 4 wherein said chemiluminescent moiety Lumi is an acridinium compound having the following structure:



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Application No. 09/626,566
Filed: 7/27/00
Group Art Unit: 1625

wherein, R_1 , R_{2a-c} , R_{3a-d} , R_5 , R_7 , A^- , M , and P are as defined in claim 4;

R_{2d} is as defined for R_{2a-c} and R_{3a-d} ;

R_{16} and R_{17} are the same or different, and are selected from the group consisting of hydrogen, methyl, alkyl with low molecular weight, and halides.
